

Appl. No. 09/976,182
Amdt. Dated August 27, 2007
Reply to Office Action of May 25, 2007

Amendments to the Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Claim 1 (Currently amended): A disposable pull-on undergarment which comprises:

- a liquid pervious top sheet;
- a liquid impervious back sheet;
- a liquid absorbent core interposed between the top and back sheets;
- front and rear waist-encircling regions opposed to each other and having longitudinal side edges that are joined together, at least one of said front and rear waist-encircling regions being elastically contractible in a waist-encircling direction;
- a crotch region positioned between the front and rear waist-encircling regions;
- a waist-encircling opening; and
- a pair of leg-encircling openings,
- said front and rear waist-encircling regions each comprising:
 - first elasticized zones which extend in the waist-encircling direction between each of the joined side edges of the front and rear waist-encircling regions and an adjacent side edge of the liquid absorbent core, said first elasticized zones having heights which extend in a longitudinal direction of the undergarment and
 - a second elasticized zone which traverses a width of the liquid absorbent core and

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extends in the waist-encircling direction between opposite side edges of the liquid absorbent core, said second elasticized zone having a height which extends in the longitudinal direction of the undergarment,

the first and second elasticized zones being adjacent to one another in the waist-encircling direction so that heights of ones of the first and second elasticized zones that are adjacent to one another in the waist-encircling direction are substantially coextensive along the waist-encircling direction, and the heights of all of the first and second elasticized zones ~~is~~ substantially equal throughout in the front waist-encircling region are substantially the same as the heights of all of the first and second elasticized zones in the and rear waist-encircling region, and the first elasticized zones having a tensile stress that is greater than a tensile stress of the second elasticized zone.

Claim 2 (Previously presented): A disposable pull-on undergarment which comprises:

- a liquid pervious top sheet;
- a liquid impervious back sheet;
- a liquid absorbent core interposed between the top and back sheets;

front and rear waist-encircling regions opposed to each other and having longitudinal side edges that are joined together, at least one of said front and rear waist-encircling regions being elastically contractible in a waist-encircling direction;

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a crotch region positioned between the front and rear waist-encircling regions;
a waist-encircling opening;
a pair of leg-encircling openings;
waist elastic members extending in the waist-encircling direction are attached in an extended condition to an edge portion of the waist-encircling opening; and
a plurality of auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first and second elasticized zones, said plurality of auxiliary elastic members being attached in an extended condition to a location between the waist elastic members and the edge portions of the leg-encircling openings,
said front and rear waist-encircling regions each comprising:
first elasticized zones which extend in the waist-encircling direction between each of the joined side edges of the front and rear waist-encircling regions and an adjacent side edge of the liquid absorbent core, said first elasticized zones having heights which extend in a longitudinal direction of the undergarment and
a second elasticized zone which traverses a width of the liquid absorbent core and extends in the waist-encircling direction between opposite side edges of the liquid absorbent core, said second elasticized zone having a height which extends in the longitudinal direction of the undergarment,
the first and second elasticized zones being adjacent to one another in the waist-encircling direction so that heights of ones of the first and second elasticized zones that are

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adjacent to one another in the waist-encircling direction are substantially coextensive along the waist-encircling direction and the first elasticized zones having a tensile stress that is greater than a tensile stress of the second elasticized zone,

a tensile stress of the auxiliary elastic members is greater in the first elasticized zone than in the second elasticized zone.

Claim 3 (Previously presented): A disposable pull-on undergarment which comprises:

- a liquid pervious top sheet;
- a liquid impervious back sheet;
- a liquid absorbent core interposed between the top and back sheets;
- front and rear waist-encircling regions opposed to each other and having longitudinal side edges that are joined together, at least one of said front and rear waist-encircling regions being elastically contractible in a waist-encircling direction;
- a crotch region positioned between the front and rear waist-encircling regions;
- a waist-encircling opening;
- a pair of leg-encircling openings;
- waist elastic members extending in the waist-encircling direction that are attached in an extended condition to an edge portion of the waist-encircling opening;
- a plurality of first auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first and second elasticized zones, which

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plurality of first auxiliary elastic members are attached in an extended condition to a location intermediate between the waist elastic members and the edge portions of the leg-encircling openings; and

a plurality of second auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first elasticized zone that are attached in an extended condition to a location intermediate between the waist elastic members and the edge portions of the leg-encircling openings,

said front and rear waist-encircling regions each comprising:

first elasticized zones which extend in the waist-encircling direction between each of the joined side edges of the front and rear waist-encircling regions and an adjacent side edge of the liquid absorbent core, said first elasticized zones having heights which extend in a longitudinal direction of the undergarment and

a second elasticized zone which traverses a width of the liquid absorbent core and extends in the waist-encircling direction between opposite side edges of the liquid absorbent core, said second elasticized zone having a height which extends in the longitudinal direction of the undergarment,

the first and second elasticized zones being adjacent to one another in the waist-encircling direction so that heights of ones of the first and second elasticized zones that are adjacent to one another in the waist-encircling direction are substantially coextensive along the waist-encircling direction and the first elasticized zones having a tensile stress that is greater than

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a tensile stress of the second elasticized zone,

a tensile stress of the first auxiliary elastic members being smaller than or equal to that of the second auxiliary elastic members.

Claim 4 (Previously presented): The disposable pull-on undergarment of Claim 1 wherein said first elasticized zones when extended to a maximum extent exhibit an extension stress in a range of 0.2 to 2.0 N/25 mm and said second elasticized zone when extended to a maximum extent exhibits an extension stress in a range of 0.1 to 0.6 N/25 mm.

Claims 5- 8 (canceled)

Claim 9 (Currently amended): The A disposable pull-on undergarment of Claim 1, which comprises:

a liquid pervious top sheet;

a liquid impervious back sheet;

a liquid absorbent core interposed between the top and back sheets;

front and rear waist-encircling regions opposed to each other and having longitudinal side edges that are joined together, at least one of said front and rear waist-encircling regions being elastically contractible in a waist-encircling direction;

a crotch region positioned between the front and rear waist-encircling regions;

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a waist-encircling opening; and

a pair of leg-encircling openings,

said front and rear waist-encircling regions each comprising:

first elasticized zones which extend in the waist-encircling direction between each of the joined side edges of the front and rear waist-encircling regions and an adjacent side edge of the liquid absorbent core, said first elasticized zones having heights which extend in a longitudinal direction of the undergarment and

a second elasticized zone which traverses a width of the liquid absorbent core and extends in the waist-encircling direction between opposite side edges of the liquid absorbent core, said second elasticized zone having a height which extends in the longitudinal direction of the undergarment,

the first and second elasticized zones being adjacent to one another in the waist-encircling direction so that heights of ones of the first and second elasticized zones that are adjacent to one another in the waist-encircling direction are substantially coextensive along the waist-encircling direction, and the heights of all of the first and second elasticized zones is substantially equal throughout the front and rear waist-encircling regions, and the first elasticized zones having a tensile stress that is greater than a tensile stress of the second elasticized zone,

said disposable pull-on undergarment further comprising:

waist elastic members extending in the waist-encircling direction are attached in an extended condition to an edge portion of the waist-encircling opening; and

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a plurality of auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first and second elasticized zones, said plurality of auxiliary elastic members being attached in an extended condition to a location between the waist elastic members and the edge portions of the leg-encircling openings,

a tensile stress of the auxiliary elastic members is greater in the first elasticized zone than in the second elasticized zone.

Claim 10 (Previously presented): ~~The A~~ disposable pull-on undergarment ~~of Claim 1, which~~ comprises:

a liquid pervious top sheet;

a liquid impervious back sheet;

a liquid absorbent core interposed between the top and back sheets;

front and rear waist-encircling regions opposed to each other and having longitudinal side edges that are joined together, at least one of said front and rear waist-encircling regions being elastically contractible in a waist-encircling direction;

a crotch region positioned between the front and rear waist-encircling regions;

a waist-encircling opening; and

a pair of leg-encircling openings,

said front and rear waist-encircling regions each comprising:

first elasticized zones which extend in the waist-encircling direction between each

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of the joined side edges of the front and rear waist-encircling regions and an adjacent side edge of the liquid absorbent core, said first elasticized zones having heights which extend in a longitudinal direction of the undergarment and

a second elasticized zone which traverses a width of the liquid absorbent core and extends in the waist-encircling direction between opposite side edges of the liquid absorbent core, said second elasticized zone having a height which extends in the longitudinal direction of the undergarment,

the first and second elasticized zones being adjacent to one another in the waist-encircling direction so that heights of ones of the first and second elasticized zones that are adjacent to one another in the waist-encircling direction are substantially coextensive along the waist-encircling direction, and the heights of all of the first and second elasticized zones is substantially equal throughout the front and rear waist-encircling regions, and the first elasticized zones having a tensile stress that is greater than a tensile stress of the second elasticized zone,

said disposable pull-on undergarment further comprising:

waist elastic members extending in the waist-encircling direction that are attached in an extended condition to an edge portion of the waist-encircling opening;

a plurality of first auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first and second elasticized zones, which plurality of first auxiliary elastic members are attached in an extended condition to a location intermediate between the waist elastic members and the edge portions of the leg-encircling

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openings; and

a plurality of second auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first elasticized zone that are attached in an extended condition to a location intermediate between the waist elastic members and the edge portions of the leg-encircling openings,

a tensile stress of the first auxiliary elastic members being smaller than or equal to that of the second auxiliary elastic members.